

Ayush Kumar

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EDUCATION

Dehradun Institute of Technology University

Bachelor of Computer Applications(Pursuing)

Dehradun,Uttarakhand,IN

August 2023 – August 2026

RELEVANT COURSEWORK

- Object-Oriented Programming (OOP)
- Data Structures & Algorithms
- Database Management Systems (DBMS)
- Operating Systems
- Computer Networks
- Web Technologies

PROJECTS

AI Study Planner | *React.js, Tailwind CSS, Lucide React, Node.js, Express.js, MongoDB*

- Developed an AI-powered academic planner using the MERN stack, enabling users to upload PDF syllabi and auto-generate personalized study schedules based on exam deadlines.
- Integrated Google Gemini API to parse unstructured PDF text into structured JSON data, extracting topic names, estimated study hours, and difficulty levels with high accuracy.
- Engineered a custom scheduling algorithm in Node.js that utilizes round-robin logic to distribute subjects evenly across the week while respecting daily study hour constraints.

E-Commerce API | *JavaScript, Node.js, Express.js, MongoDB*

- Developed a fully functional RESTful API for an e-commerce platform using Node.js, Express, and MongoDB.
- Implemented core features including authentication, product management, cart handling, orders, and wishlist functionality.
- Ensured secure and optimized APIs using middleware for validation, error handling, and performance improvements.
- Tested all endpoints using Postman to validate complete end-to-end functionality.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, HTML, CSS, SQL, C

Frameworks: React.js, Next.js, Tailwind CSS, Express.js

Databases: MongoDB, Mongoose (ODM), SQL (Relational Databases)

Developer Tools: Git, GitHub, VS Code, Chrome Extensions, Postman

Libraries: ShadCN UI

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Youthopia 2024 – College Fest

DIT University

Web Developer

- Worked as part of the web development team for the official university fest website.
- Collaborated with designers and developers to deliver a responsive, production-ready website.
- Contributed to planning, implementation, and timely delivery of the project.

IEEE Student Branch

DIT University

Technical Member

- Actively contributed as a technical member supporting the organization of technical workshops and events.
- Assisted in organizing hackathons and technical events during the university annual fest.
- Collaborated with the web team to support website-related tasks for IEEE-led initiatives.
- Gained hands-on experience in event coordination, teamwork, and technical collaboration.